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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,707	10/810,707 03/29/2004		Takashi Shiraishi	036741-0131	9057
22428	7590	10/17/2005		EXAMINER	
FOLEY AND SUITE 500	D LARE	ONER LLP	KHATRI, PRANAV V		
3000 K STRE	ET NW		ART UNIT	PAPER NUMBER	
WASHINGTO	ON, DC	20007	2872		

DATE MAILED: 10/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				H1
		Application No.	Applicant(s)	
Office Astion Comments		10/810,707	SHIRAISHI, TAKASHI	
	Office Action Summary	Examiner	Art Unit	
		Pranav V. Khatri	2872	
Period fo	The MAILING DATE of this communicat or Reply	tion appears on the cover shee	t with the correspondence address	
THE - External control	MAILING DATE OF THIS COMMUNICA ensions of time may be available under the provisions of 37 or SIX (6) MONTHS from the mailing date of this communical experion for reply specified above is less than thirty (30) data of period for reply is specified above, the maximum statutor under the provision of the provision	TION. 7 CFR 1.136(a). In no event, however, ma ation. 19s, a reply within the statutory minimum o period will apply and will expire SIX (6) by statute, cause the application to become	by a reply be timely filed  If thirty (30) days will be considered timely.  MONTHS from the mailing date of this communion to the communion of the communication of the communic	ication.
Status				
1)⊠	Responsive to communication(s) filed o	n 06 September 2005.		
2a)□	_	☐ This action is non-final.		
3)□	Since this application is in condition for		natters, prosecution as to the meri	its is
,—	closed in accordance with the practice u			
Disposit	ion of Claims		* .	
4)⊠	Claim(s) 1-17 is/are pending in the appl	ication.		
	4a) Of the above claim(s) 6-13 and 15-1	7 is/are withdrawn from consi	deration.	
5)[	Claim(s) is/are allowed.			
6)⊠	Claim(s) 1-5 and 14 is/are rejected.			
	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction	n and/or election requirement.		
Applicat	ion Papers			
9)⊠	The specification is objected to by the Ex	xaminer.		
	The drawing(s) filed on is/are: a)		to by the Examiner.	
	Applicant may not request that any objection	•		
	Replacement drawing sheet(s) including the	<del>-</del> · ·		21(d).
11)	The oath or declaration is objected to by			
Priority (	under 35 U.S.C. § 119			
	Acknowledgment is made of a claim for a All b) Some * c) None of:  1. Certified copies of the priority doc 2. Certified copies of the priority doc	cuments have been received.		
	3. Copies of the certified copies of the			3
	application from the International			-
* 5	See the attached detailed Office action fo	or a list of the certified copies i	not received.	
Attachmen	• •			
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-	4) ∐ Intervie	ew Summary (PTO-413) No(s)/Mail Date	
3) 🔯 Infor	mation Disclosure Statement(s) (PTO-1449 or PTC PTO) mation Disclosure Statement(s) mation Disclosure Statement(s) (PTO-1449 or PTC) mation Disclosure Statement(s) (PTO-1449 or PTC)		of Informal Patent Application (PTO-152)	

# Page 2

#### **DETAILED ACTION**

## Response to Restriction

Applicant's election without traverse of species (a)(Fig 1-10, and Claims 1-5, and 14) in the reply filed on September 6, 2005 is acknowledged.

#### Specification

The disclosure is objected to because of the following informalities: (1) Fig 3, Numeral 39 is not mentioned in the specification. Furthermore, applicant is requested to go over the entire specification to revise any deficiencies.

Appropriate correction is required.

Art Unit: 2872

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Omura (US Patent 6,229,656).

Regarding claim 1, Omura discloses an optical multi-beam scanning device (see Omura Fig 3), comprising: a plurality of light sources (101A-101D); deflecting means (5) for deflecting light beams from the light sources; post-deflection optical means (30) for making the light beams deflected by the deflecting means enter a surface to be scanned in a vertical scanning direction with respect to a normal direction of the surface to be scanned at a predetermined angle; horizontal synchronization detecting means (23) for synchronizing the light beams in a horizontal scanning direction; and optical path folding means (25) for folding the light beams, directing towards the surface (23) to be scanned, to the horizontal synchronization detecting means (23), a light receiving surface of the horizontal synchronization detecting means is tilted (numeral 23 and its surface is tilted with respect to the scanning directions, as seen in Fig 3) so as to output a horizontal synchronized signal when the light beams come to the same position on the surface to be scanned in the horizontal scanning direction (horizontal sync device is designed for this purpose).

Application/Control Number: 10/810,707

Art Unit: 2872

Regarding claim 2, Omura discloses wherein the light receiving surface of the horizontal synchronization (23) detecting means is tilted in the vertical scanning direction at an angle equivalent to that of the surface to be scanned (Col 9 Lines 41-44, the horizontal sync 23 can be adjusted to be tilted in the vertical).

Regarding claim 3, Omura discloses wherein when a tilting direction of the light receiving surface of the horizontal synchronization (23) detecting means is assumed to be in a plane formed in the vertical scanning direction and the horizontal scanning direction, and the tilting angle (23 can be adjusted) is a direction such that the horizontal synchronized signal is output when the light beams are on the same position on the surface to be scanned in the horizontal scanning direction (Col 9 Lines 41-44, the horizontal sync 23 can be adjusted to be tilted or be in a plane formed in the vertical or horizontal scanning direction).

Regarding claim 4, Omura discloses wherein a tilting angle (Col 9 Lines 41-44) of the light receiving surface of the horizontal synchronization detecting means (23) includes the horizontal scanning direction (as see in Fig 3), the vertical scanning direction, and a direction perpendicular to the horizontal scanning direction and the vertical scanning direction (Col 9 Lines 41-44, numeral 24 can be adjusted in the horizontal, vertical, and a direction perpendicular to both).

Regarding claim 5, Omura discloses wherein a relationship among wavelengths of the light beams form the light sources (101A-101D) is set so that their moving amounts in the horizontal scanning direction with respect to a deflecting angle are uniform (Col 6 Lines 15-21 and Lines 40-44), an optical element (25) for changing an

Application/Control Number: 10/810,707

Art Unit: 2872

Page 5

emitting angle according to a fluctuation in the wavelengths of the light beams emitted from the light sources is arranged on an optical path between the deflecting means (5) and the horizontal synchronization detecting means (23).

Regarding claim 14, Omura discloses a photoreceptor (58) having a surface to be scanned on which latent images are formed based on light beams from the optical multi-beam scanning device (Col 3 Lines 31-36 and Lines 48-52).

Application/Control Number: 10/810,707

Art Unit: 2872

Page 6

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pranav V. Khatri whose telephone number is 571-272-8311. The examiner can normally be reached on M-F, 8:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pranav Khatri Examiner Art Unit 2872 10/05/2005

PRIMARY

PRIMARY EXAMINER